ORCHITTEN, R.D., doktor khim. nauk, otv. red.; MASHKIMA, A.V., kand. khim. nauk, red.; MOZHKIMA, I.A., kand. khim. nauk, red.; MOZHKIMA, I.A., kand. khim. nauk, red.; GLAD-KOVA, L.K., red.; SIDOROV, V.V., red.; SMAFIN, I.G., tekhm. red.

[Chemistry of sulfur and nitrogen organic compounds in petroleum and petroleum products] Khimis sers- i szotoerganicheskikh scedinenii, sodersheshchikhsis v neftiskh i nefteproduktakh. Ufs. Vol.3. 1960. 337 p.

(MIRA 14:5)

1. Akademiya neuk SESR. Beshkirskiy filial, Ufs. Otdel khimii. 2. Beshkirskiy filial AM SESR, Otdel khimii (for Obolentsev)

(Petroleum-Analysis) (Sulfur organic compounds)
(Nitrogen organic compounds)

OBOLENTSEV, R.D.; MASHKIMA, A.V.

Hydrogenolysis of sulfur organic compounds under conditions of hydrofining. Khim.sera-1 asotorg.soed.sod.v neft.i nefteprod 3:295 329 *60. (MIRA 14:6)

1. Bashkirakiy filial AN SSSR, Otdel khimii.
(Sulfur organic compounds) (Petroleum—Refining)

5:3620

800C

AUTHORS:

Obolentsev, R. D., Mashkina, A. V.

S/020/60/131/05/030/069

B011/B117

TITLE:

Kinetics of the Reactions of Hydrodesulfuration

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 5, pp 1092-1095 (USSR)

TEXT: In their paper, the authors report on the results of the systematic study of the kinetics of hydrogenolysis for 14 sulfides and thiophenes in the presence of an aluminum-cobalt-molybdenum catalyst (Al-Co-Mo). Experimental methods used were described in reference 4. Figure 1 shows, as an example, the curves of the dependence of the conversion degree on the time of contact for 2,4,6,8-tetramethyl-5-thiononane. The shape of these curves is characteristic of all compounds investigated here. Hydrogenolysis is well-defined by equations suggested in a general form by Frost $(\mathbf{v}_0 \ln \frac{1}{1-\mathbf{y}} = \alpha + \beta \mathbf{v}_0)$ and Kaseyev $(\ln \frac{D}{D-M} = a\tau^b)$ (\mathbf{v}_0 being the average feeding rate of the compound used to the reaction vessel per 1 g of the catalyst per 1 hour; y the intensity of hydrogenolysis in fractions of unity; α and β parameters; τ time of contact in seconds, M the intensity of hydrogenolysis in β ; D the limit of M for $\tau + \infty$, a and b parameters). The parameters of these equations for 14 compounds investigated are given in table 1. From an analysis of these parameters, it follows that the organic compounds of

Card 1/3

8000/

Kinetics of the Reactions of Hydrodesulfuration

S/020/60/131/05/030/069 B011/B117

sulfur form as to their rate of hydrogenolysis, the following sequence with increasing activity holds: A, B, V, G, D, Ye, Zh, Z, K, L, M, N, O, P. The values of the parameter a are proportional to the rate constants of the hydrogenolysis reaction of these compounds at 375°. They are related to each other in the following way: (A, B, ∇ , G, D): (Ye, Zh): (Z, K): (L, M, N, O): P = = 1 : 2 : 3 : 4 : 7. The possibility of obtaining a selective hydrodesulfuration of petroleum products on the Al-Co-Mo catalyst is based on this dependence. In addition, this catalyst may be used to perform group analyses of organic compounds of sulfur. This dependence makes it possible, moreover, to predict the type of products formed by hydrogenolysis. The hydrogenolysis rate of organic compounds of sulfur obeys the law of additivity (curves in Fig 2). Thereby, the prediction of the composition of organic compounds of sulfur formed when petroleum products are hydrodesulfurised is made possible. The authors intended to study the influence of the reaction products on the rate of hydrogenolysis. Dibenzo thiophene solved in cetane with diphenyl and H2S added was therefore subjected to hydrolysis. Maximum intensity and rate of hydrogenolysis are rapidly reduced by the addition of biphenyl to the initial solution of dibenzo thiophene, but are practically independent of the HoS added (Fig 3). Dibenzo thiophene together with its derivatives represents the major part of the so-called "residual sulfur".

Card 2/3

800C /

Kinetics of the Reactions of Hydrodesulfuration

S/020/60/131/05/030/069 B01*/B117

Results obtained are of interest in the processing of petroleum. From table 2, it is obvious that hydrodesulfuration should be performed in the dispersed layer for the best results. Moreover, data obtained by the authors can contribute to the development of new ways of obtaining hydrodesulfurizing catalysts. The main products of hydrogenolysis are H₂S and the corresponding hydrocarbon. Monocyclic hydrocarbons are not hydrogenated practically under the conditions given. The Al-Go-Mo catalyst can be used to identify organic compounds of sulfur by means of their hydrolysis products (analogously to Raney nickel). There are 3 figures, 2 tables, and 4 references, 2 of which are Soviet.

ASSOCIATION: Otdel khimii Bashkirskogo filiala Akademii nauk SSSR (Department of Chemistry of the Bashkiriya Branch of the Academy of Sciences. USSR)

PRESENTED: December 8, 1959, by A. V. Topchiyev, Academician

SUBMITTED: December 8, 1959

Card 3/3

MASHKINA H V

PEASE I BOOK EXPLOITATION

907/5769

Obolentsev, Roman Dmitriyevich, and Anna Vasil'yevna Mashkina

Oldrogenolis sereorganicheskikh soyedineniy nefti (Hydrogenolysis of Organic Sulfur Petroleum Compounds) Moscow, Gostoptekhisdat, 1961. 145 p. 2,100 copies printed.

Executive Ed.: O. M. Yenisherlova; Tech. Ed.: A. S. Polosina.

PURPOSE: This book is intended for scientific workers and engineers at research institutes, design and planning organizations, and petroleum refineries, and can also be used by students in advanced courses in schools of higher technical education specializing in petroleum engineering.

COVERAGE: The book systematizes and describes reactions of the hydrogenolysis of organic sulfur compounds of the type present in petroleum crudes. Information is also given on reaction thermodynamics, kinetics, and the mechanism of reactions which constitute the theoretical besis of the hydrorefining process. A significant part of the data can serve as reference material for designing, planning, and operating hydrorefining installations at petroleum-refining plante

Card 1/3

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	enolysis of Organic Sulfur Petroleum Compounds	807 /5769
46	personalities are mentioned. There are 116 references:	67 Soviet,
TABLE	of Contents:	
Introd	action	
Ch. I.	Hydrogenolysis of Organic Sulfur Compounds in the Presence of Oxide and Sulfide Catalysts	,
	Thermodynamic Probability of Reactions of	21
2.	Heat effect	31. 31
3.	Equilibrium constants and equilibrium concentrations	31 \$7
h. III	. Mechanism and Kinetics of the Hydrogenolysis of Organi Sulfur Compounds	le
h. IV.	Mechanism and Kinetics of the Hydrodesulfurisation of Petroleum Products	51
	110030	116

3/081/62/000/002/008/107 B149/B108

5.3300

Obolentsev, R. L., Mashkina, A. V., Kuzyyev, A. R.

Gribkova, G. P.

TITLE:

AUTHORS:

Kinetics of catalytic hydrogenolysis of some organic

compounds of divalent sulfur

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1962. 76, abstract 2B543 (Sb. "Khimiya seraorgan. soyedinenyy soderzhashchikhaya

v neftyakh i nefteproduktakh. v. 4". M. Gostoptekhizdat.

1961, 166-176)

TEXT: The kinetics of hydrogenolysis of 2.8-dimethyl-5-thiononane, diphenyl- and dibenzyl sulfides, 2.5-dibutyl thiophene, 2-octylthiophene, 2-phenyl thiacyclopentane, and 3-methyl thionaphthene have been studied in the presence of commercial aluminum-cobalt-molybdenum catalyst. It has been found that in the above reactions elemental sulfur and mercaptans are formed. The authors conclude that hydropurification of petroleum products in a suspension layer is feasible. [Abstracter's note: Complete translation.]

Card 1/1

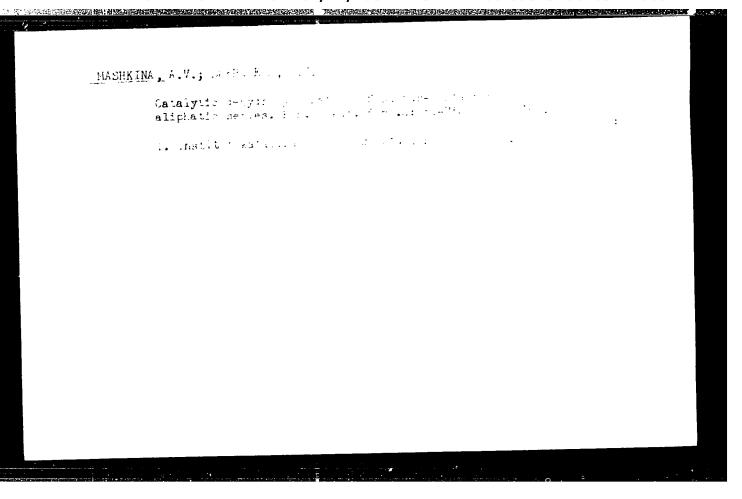
J54:30 5/081/62/000/004/066/087 B150/B138 5 3300 Obolentsev, R. D. Mashkina, A. V., Mikheyev, G. M. AUTHORS: 10 The hydro-refining of highly sulfurous petroleums TITLE: PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1962, 477-478, abstract 4M140 (Sb. "Khimiya seraorgan. soyedineniy, soderzhashchikhaya v neftyakh i nefteproduktakh. v. 4", M., Gostoptekhizdat., 15 1961, 184-188) TEXT: Experiments were made in the hydrorefining of highly sulfurous Arlan petroleums in a once-through laboratory set-up under H, pressure in the 20 presence of a sulfurized alumo-cobalt-molybdenic catalyst. The dependence of the depth of hydro-desulfurization upon the temperature, volumetric speed and partial H2 pressure was studied. It was found that in the temperature range 350-425 C the depth of desulfurization increases from 40 to ~ 68% with a comparatively small increase in yield of light fractions (beginning to 25 boil at 300°C) from 48 to 55%; a further rise in temperature up to 500°C Card 1/2 30

rd 2/2		53
		50
produces considerable development in depth of desulfurization reaches 87%. that in the first hours of working, to harply, and then keeps to a constant iminary results obtained indicate the ation of Arlan petroleum and the produces esidues and of light petroleum produces	the hydro-oracking reaction, and the A study of the catalyst fatigue she activity of the catalyst falls desulfurization level of ~ 30%.	- 4.
The hydro-refining of highly	S/081/62/000/004/066/087 B150/B138	

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MASHKINA, A.V.; EHRAMOV, A.V.; CHERNOV, V.I.

Catalytic hydrogenation of 3-sulfolene. Ein.i kat. 3 no.5:
(MIRA 16:1)
742-746 S-0 '62.

1. Institut kataliza Sibirakogo otdeleniya AM SSSR.
(Thiophene) (Hydrogenation) (Catalysis)
```



OBOLENTSEV, R.D., prof., doktor khim. nauk, otv. red.; GAL'PERN, G.D., doktor khim. nauk, red.; GUR'YANOVA, Ye.N., doktor khim. nauk, red.; MASHKINA. A.V., kand. khim. nauk, red.; PIVOVAROVA, T.Ye., kand. khim. nauk, red.; POZDEYFV. N.M., kand. fiz.-mat. nauk, red.; SOSKOVA, L.M., red. LEVINA, Ye.S., ved.red.

[Chemistry of the sulfur organic compounds in petroleum and petroleum products] Khimiia seraorganicheskikh soedinenii, soderzhashchikhsia v neftiakh i nefteproduktakh. Moskva, Khimiia, 1964. 286 p. (MIRA 18:4)

1. Nauchnaya sezsiya po khimil sera- i asotoorganicheskikh soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh. 7th, Ufa, 1963. 2. Institut organicheskoy khimil Bashkirskogo filiala AN SSSR (for Soskova, Obolentsev). 3. Fiziko-khimicheskiy institut im. L.Ya.Karpova (for Gur'yanova). 4. Institut neftekhimicheskogo sinteza AN SSSR (for Gal'perin).

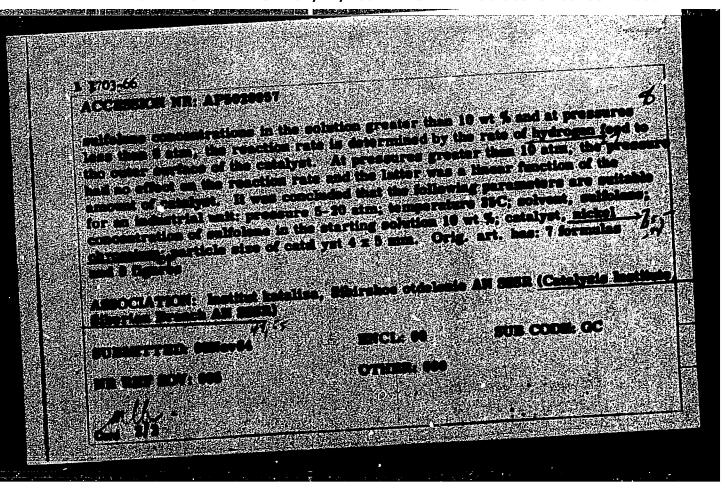
KEYER, N.P., doktor khim. nauk, ctv. red.; MAKAROV, A.D., kand. khim. nauk, red.; MASHKINA, A.V., kand. khim. nauk, red.; NAZARYANTS, T.M., red.;

生物。在1800年中1800年中的1800年的

[Scientific principles underlying the selection and preparation of catalysts] Nauchnye osnovy podbora i proizvodstva katalizatorov. Novosibirak, Red.-izdateliskiy otder Sibirak otdenita AN SSSR, 1964. 490 p. (MIRA 18.1)

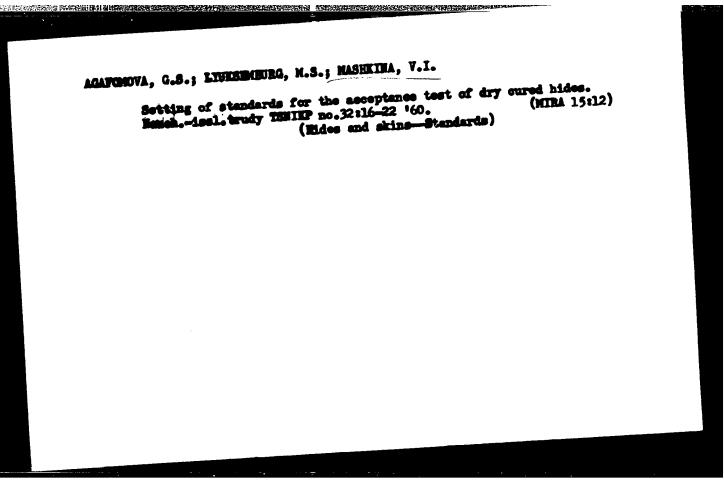
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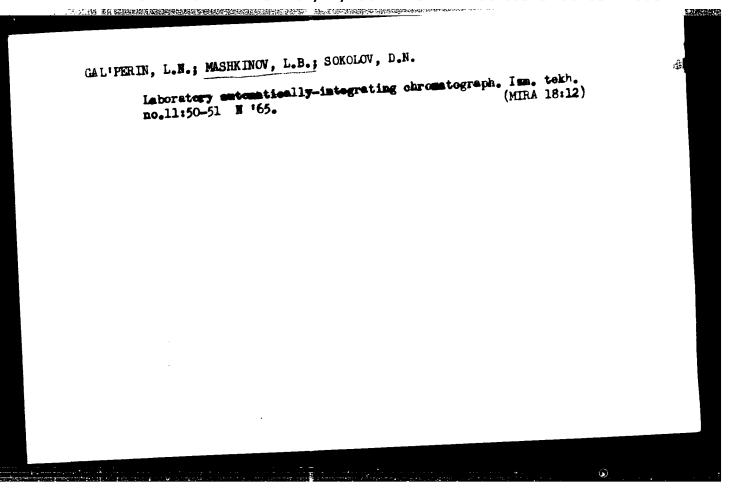
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S/2933/64/006/000/0301/0307 CESSION NR: AT4040452 THOR: Mashkina, A. V. TLE: Problems in studies of the catalytic conversions of sulfur organic com-NURCE: AN SSSR. Bashkirskiy filial. Khimiya seraorganicheskikh soyedineniy, derzhashchikhsya v neftyakh i nefteproduktakh, v. 6, 1964, 301-307 PIC TAGS: petroleum refining, petrochemical manufacture, catalytic cracking, atforming, hydrocracking, catalytic reforming, hydrogenolysis, dehydrogenation, clization, catalytic dealkylation, sulfur organic compound, contact exidation, stalytic addition, catalytic synthesis ISTRACT: The report is a rather generalized review of past research (mainly wiet) on catalytic conversions of sulfur organic compounds and suggests areas equiring supplemental research. These include experimental determination of acirate values for the thermodynamic properties of key sulfur-containing molecules; lequate consideration of the effects of various sulfur organic compounds on the unction of aluminosilicate catalysts; supplemental analysis of the effects of Ifur organic compounds on alumino-platinum catalysts used in platforming at wiet refineries; further research on the mechanism of hydrogenolysis and function-Card /2

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MASHKO, A. A., VECHER, A. S. ("SER)

"Amino-Acid Compositions of the Proteins from Various Types of Flastids."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

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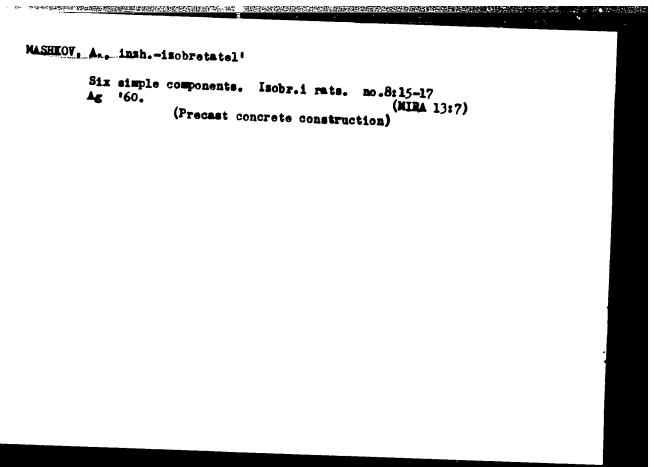
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MASHKOV, A., insh.; MORAVSKIY, L., kand.yurid.nauk

Houses built by collectives and by individual owners and their territorial distribution. Zhil.-kom.khos. 9 no.11: 16-17 '59. (MIRA 13:2)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720002-4"

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MASHKOV, A.A.

MASHKOV, A.A.—"Investigation of the Efficiency of Stage Regulation of the Power of 'GAZ-51' Motor." Cand Tech Sci, Moscow Order of the Labor Red Banner Higher Technical School imeni Bauman, 15 Jan 54. (Vechernyaya Moskva, 7 Jan 54)

SO: Sum 168, 22 July 1954

STEERING SELLEN LONG CONTRACTOR OF STREET

是一种,我们们就是这种的特别的,我们就是一种,但是不是一种的人,是一种的人,也不是一种的人,也是一种的人,也是一种的人,也是一种的人,也是一种的人,也是一种的人

SOV/124 58-11-12135

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 24 (USSR)

AUTHOR: Mashkov, A. A.

TITLE: A Graphic Method for Kinematic Analysis of Plane Mechanisms

(Kinematicheskiy analiz ploskikh mekhanizmov metodom grafiko)

PERIODICAL: Tr. Tashkentsk. in ta inzh. irrig. i mekhaniz. s. kh., 1957. Nr 6.

pp 13-42

ABSTRACT: The author recommends that the kinematic-graph method be

regarded as a separate independent section of the theory of mechanisms

and gives his own ideas of how that section should be defined.

S. G. Kislitsyn

Card 1/1

SOV/129-59-1-5/17

Blanter, M.Ye., Dottor of Technical Stiences, Professor AUTHORS:

and Mashkov, A.K., Engineer

Anomalous Changes in the Properties of Alloys During TITIE: Phase Transformations (Anomal nye izmeneniya svoystv splavov v protsesse fazovykh prevrashcheniy)

PERIODICAL: Metallo-edeniye i Termicheskaya Obrabotka Metallov,

1959, Nr 1, pp 6 - 10 (USSR)

ABSTRACT: It follows from general considerations that some atoms of an alloy which participate in the process of phase transformation are in a particular state in which the transfer of atoms from one crystal lattice to another is probably accompanied by a temporary weakening of the inter-atomic bond forces. This should bring about an anomalous change of a number of physico-chemical and mechanical properties of the alloys and if these changes are of sufficient magnitude, they can be detected by known methods of investigation. These anomalous effects will apparently be of a different nature than the increase in ductility during hardening and tempering of steel which was observed earlier by Kayushnikov, P.Ya. (Ref 1) and has also been investigated by Vorob'yev (Ref 2) and

Gol'denberg (Ref 3). Obviously, an orientated decomposition Card1/4

Anomalous Changes in the Properties of Alloys During Phase

and directional diffusion cannot bring about anomalous changes of such properties as the electric conductivity for instance. The aim of the work described in this paper was to establish the presence of similar effects in the charges of the electric resistance and resistance to plastic defermation. For this purpose, the kinetics of the phase transformations of the investigated alloys were studied first and from the obtained kinetic diagrams, thermal regimes were determined which are suitable for studying the character of the property changes. arcmalous changes in the electric resistance during phase transformations were investigated on a steel containing 9.18% Cr, 0.02% C, 0.16% Mn and 0.19% Si. The determined diagram of the isothermal transformation of the alloy is graphed in Figure 1, p 7. 3 mm its, 30 mm long specimens were austenised at 900 °C (the Ac, range was 815 to 850 °C) with a holding time of 5 min. In Figure 2, the change in the specific electric resistance during the prase transformation and the surves of isothermal transformation at Card2/4 615 C are graphed. In Figure 3, the change is graphed

Anomalous Changes in the Properties of Alloys During Phase
Transformations

of the speed of transformation, the electric conductivity and the degree of transformation during mathermal annealing at 615 °C. The correlation between the speed of transformation and the magnitude of the anomalous increase in electric conductivity is graphed in Figure 4. The aromalous change of the resistance to plastic deformation during phase transformation was studied by measuring the hardness of an alley containing 0.06% 3, 22.15% Ni, 2.52% Mn, 0.047% St. The diagram of is: thermal transformation of austenits and martensite for this alleg is graphed in Figure 5. The change in the hardness of the austenitemartenalte mixture during isothermal transformation (at -29°C) as graphed in Figure 5. It was found that during phase transformation, anomalous thanges took place in the electric conductivity and the resistance of the material to plastic deformation. These anomalous changes (appreciable increase of the sleatric conductivity and decrease of the resistance to plastic deformation) coincide with the period of intensive transformation. These anomalous changes indicate that the metallic alloys are in a particular

Card3/4

SOV/129-59-1-3/17

Anomalous Changes in the Properties of Alloys During Phase Transformations

state during phase transformations. These anomalous changes in the properties are characterised by a weakening of the interatomic bonds and an acceleration of the processes of plastic deformation and electron transfer. Therefore, it is necessary to treat with caution resistance curves determined during the process of transformation, before the state of the alloy has been stabilised by hardening. There are 6 figures and 4 Soviet references.

ASSOCIATION:

Vssabyuzny; zacchnyy mashinostroitel'nyy institut (All-Union Correspondence Engineering Institute)

Card 4/4

S/137/61/000/001/037/043 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No.1, p.18, # 11162

AUTHORS: Sevast'yanov, N.S., Mashkov, A.K.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

TITIE: On the Effect of Nickel and Chromium Admixture and Changes in the

Carbon Content on the Properties of High-Manganese Steel

PERIODICAL: "Tr. Omskogo mashinostr. in-ta", 1959, No. 3, pp. 145-159

TEXT: The effect of the content of (in \$): Ni 0.34 - 0.84, Cr 0.25 - 0.90 and C 0.94 - 1.34, on the mechanical properties $(\sigma_b, \sigma_s, \xi, \psi, a_k)$ the microstructure and wear resistance of (-13) (LO13) manganese steel was investigated. It was established that Ni and Cr (in the indicated amounts) did not affect the properties of Mn-steel, which depend mainly on the C content and the teeming temperature. The latter should be (-1,450) C. For castings operating under dynamic loads it is recommended to reduce the C content down to 0.9 - 1.15. There are 6 references.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

是小说:"我这里排除的话,我们还是我们的话题的话题,我就是这些话题,我们的话题,我们就是这些话题,这里可以是这种话题,我们就是我们的话题,我们是这种话题,这里是

\$/123/61/000/013/018/025 A052/A101

AUTHOR:

Mashkov, A. K.

TITLE:

On the possibility of utilizing the own heat of $\sqrt{1}$ -13 (LG-13) steel cast for heat treatment and on the properties of heat treated steel

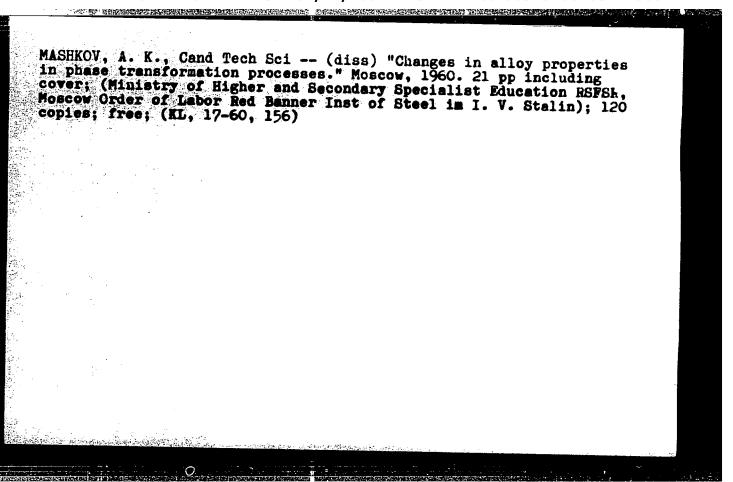
PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1961, 29, abstract 13 G177 (Tr. Omskogo mashinostroit. in-ta, 1959, no. 3, 207-222)

The hardening of LG-13 steel produced in a green sand mold immediate-TEXT: ly after extraction from the mold (with the surface temperature of 890-1,000°C) results in a dendritic austenitic structure with properties acceptable for castings of the lining plate type. The hardening of steel cast in the same way but with the temperature equalization after extraction from the sand mold, secures a polyhedral austenitic structure with properties meeting the demands of important castings of this steel. Steel produced in a metal mold can be hardened by either method, depending on the cross-section of the casting. There are 16 figures and 2 references.

N. Il'ina

[Abstracter's note: Complete translation]

Gard 1/1



3/148/60/000/011/014/015 A161/A030

AUTHORS:

Blanter, M. Ye., Mashkov, A. K.

TITLE

Strength variations in the process of the alpha-gamma trans-

formation in alloyed iron

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya.

no. 11, 1960, 133 - 142

TEXT: The mechanical properties of armco iron and of alloy steel in the allotropic transformation stage had been studied previously, and the peculiar, spontaneous increase of plasticity had been noticed in two works (Ref. 9: Tamaki. J. Japan. Inst. Metals, 1955, No.2, 19 and Ref. 10: F.Ya. Kayushnikov. Sb. "Peredovoy opyt proizvodstva ("Advanced production experience"). Goryachaya obrabotka metallov", 1956). The authors of this article studied this in the cases of direct and reverse martensitic transformation (Ref. 11 and 12; Blanter and Mashkov, in "Metallovedeniye i termicheskaya obrabotka metallov", 1959, No. 1 and No. 11), and stated that the alpha-gamma transformation intervals are limited with the points At and At. i.e., that the first stage of transformation is from pearlite Card 1/5

S/148/60/000/011/014/015 A161/A030

Strength variations in the . . .

into austenite (a+++>), and the following is pure alpha-gamma transformation. The behaviour of metal in the @-Ptransformation in the atsence of the point A: is of practical interest. It has been studied in the described experiments with Fe-Cr alloys (in view of the very extensive usa of Cr for alloying), i.e., armco iron with Cr, in five different combinations. The metal was melted in an induction furnace, homogenized at 100°C for 5 hours, then the ingots were forged into rods 12 mm in diamater, and their mechanical properties at an interval of 1-2 investigated, and the limits of the interval determined by preliminary dilatometric analysis. The experiment results are illustrated in a series of graphs. The characteristical "dips" on the hardness curves (Figure 6) were observed, and the curves stated to run roughly parallel to the Cr content. The difference of 7.1% Cr (between the minimum and maximum in the five compositions) caused a difference in hardness of $5\frac{1}{2}$ 10 kg/mm². The authors think that the "dip" of strength (Figure 7) is connected with the effects of two factors: one leads to the strengthening and is connected with the formation of phase hardening on account of the difference in the specific volumes of ferrite and austenite (curve 1), and the other is the temporary weakening of the

Card 2/5

Strength variations in the

S/148/60/000/011/014/015 A161/A030

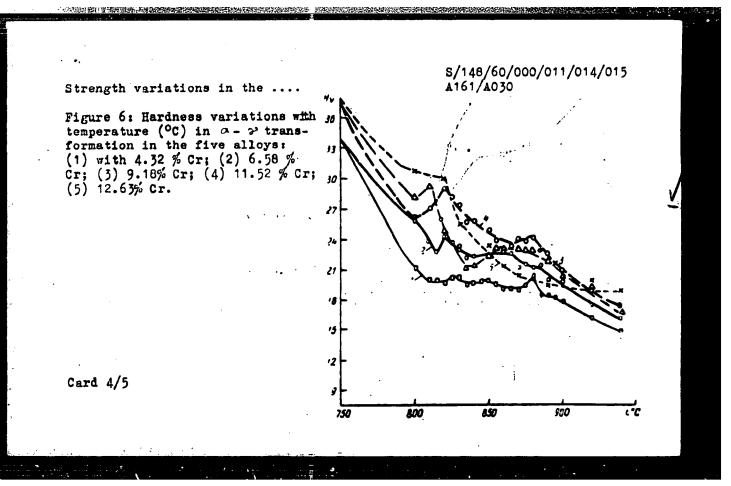
BECCHARACTE STATE OF THE

bond between atoms regrouping into a new crystalline grid. The maximum strength drop is in the mid of the interval (curve 2 in Figure 7). A uniform strength reduction through the whole interval must continue, too, on account of the recrystallization process. The effect of the factors increases (curve 3). The peaks at the beginning and end of the transformation interval are due to the effect of the phase hardening. There are 7 figures and 12 references: 8 Soviet and 4 non-Soviet. One reference is English and reads as follows: (Ref. 2) A. Sauveur. Trans.Am. Soc. for Steel Tr., 1930, XVII, No. 3.

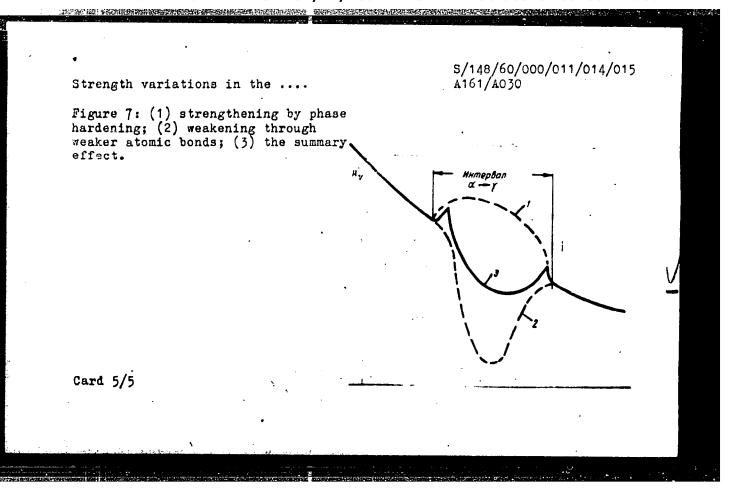
ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union Correspondence Institute of Machine Building).

SUBMITTED: February 20, 1960

Card 3/s



APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720002-4"



2.712

S 148/61.000/001/011 015 A161/A135

187500

AUTHORS:

Branter, M. Ye , and Mashkov, A. K.

TITLE

Isothermic transformation of supercooled austenite in binary

aron-chromium alleys

PERIODICAL: lyvestiya vyeenikn uchebnykh zavedeniy. Chernaya metallurgiya,

6. 1, yr , 160 165

The results are given of an experimental investigation carried TEXT but in view of insufficient literature data on the kinetics of the isothermic decomposition of abstenite in Fe-Cr alloys. The carbon free alloys were prepared in an industrien furnace from armoterion. Investigation data for one of the studied allive, with Guid, Cr, and its is thermic austenite transformation diagram had then pure sahed by the authors previously (Ref. 5: Blanter and Mashko: Metalloveden yell termi-neskaya obrabotka metallov, 1959; no 1). The chemical ecopesition and Anglianges of the four other alloys are the followings

Card 1/5

21/2/13

\$/148/61/000/001/011/015

Isothermic transformation of supercooled.

The alloy index:	(%) Cr	C	S:	Ma	N.	Aczrange,
X 4	4 32	0.02	0 18		0.29	825 <u>-880</u>
χ ⁷	F., P.,	0.03	0 ·6		C 29	а ў я 5 я
X11,5	1 (57	OBA	0.20	0.12	9 2 P	କ୍ଟ ନ୍ ^ଲ ୍
X12,6	12.61	6	0 36		0.29	822 (reginning

The transformation ranges were determined with a Chevenard distometer, and the transformation kinet. I studied with an anisometer. The austenization temperature in 3 mm diameter and 30 mm long specimens exceeded by 50°C intemperature of the 60% transformation end, the heling time was 5 min. Specimens of X12,6 were neated to 920°. The information includes diagrams indicating the kinetics variations in the four alloys with increasing Cr content, and four photom crographs. Conclusions: 1) an addition of up to 9% Cr results in an about inhibition of decomposition of supersocied assterite. A further increase of the Cr-content to 11 and 12.6% has practically

Card 2/5

^{*} The X12,6 allty is succeeded only to a partial ing transformation.

24212 S/148/61/000/001/011/015 A161/A133

Isothermic transformation of supercooled ...

no effect on the transformation rate. This is due to the peculiar effect of Cr on the position of A_{R} temperature, and hence on the difference of free energy values of &-x-phases. 2) An addition of Cr extremely increases the stability of supercooled austenite in the upper temperature range near the martensite point. 3) An addition of Cr decreases the martensite transformation range. The isothermic transformation time of austenite into martensite is not clearly connected with the alloy composition. 4) The structure formation during supercooled austenite transformation in carbon-free alloys is either by diffusion and a resulting grainy structure, or by the martensitic process with a resulting acicular structure. It may be assumed that drop ferrite forms as in the following. When acicular alpha structure is forming below the recrystallization threshold of austenite but above the ferrite threshold - the diffusion process of alpha recrystallization leads to a breaking up of the martensite "needles". Thus, the so-called "droplet" ferrite forms from acicular structures in connection with subsequent recrystallization after transformation, because the temperature threshold of ferrite recrystallization is lower than the threshold of austenite. There are 5 figures and 5 Soviet-bloc references.

X

Card 3/5

30

21212 S/148/61/000/001/011/015 Isothermic transformation of supercooled ... A161/A133 ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union Correspondence Institute of Mechanical Engineering) SUBMITTED: May 27, 1960 Fig. 4. The effect of Cr on the position of the martensitic transformation range Fig. 2. The effect of Cr on the austenite transformation rate in 111 high temperature ranges (at 700°C isotherm). 1 - X4; 2 - X7; 3 -X9; 4 - X11,5; 5 - X12,6.- Transformation degree, in %; - Time, min Card 4/5

BLANTER, M.Ye.; MASHKOV, A.K.

Changes of electric resistance and thermoelectromotive force in the process of $\alpha \geq r$ iron alloy transformation. Fig. met. 1 metalloyed. 11 no. 2:194-202 F *61. (MIRA 14:5)

1. Vsesoyusnyy zaochnyy mashinostroitel'nyy institut.
(Iron alloys—Metallography) (Thermoelectricity)

中国,我们就们就会对连续的一种,我们就是这种的一种,我们就是一个人的,我们就是一个人的,我们也是一个人的人,我们就是这种的人,我们就是这种人的人,我们就是一个人

1//H5/A	YEVOY, Ye.V. MASHKOV, A.H.	
	Commercial properties of Angora-type goatskin and experience in its use for the production of leather and fur. Leg. pron. 17 no.6: 15-17 Je '57. (!GRA. 10:8) (Hides and skins) (Goats)	

MASHKOV, A.E., kand.sel'skokhos.nauk

Heed for a revision of state standards for raw sheep pelts for fur and sheepskin garments. Losh.-obuv.prom. 2 no.6:4-8 Je '60.

(Hides and skins—Standards)

MASHKOV, A.N., kand.sel'skokhozyaystvennykh nauk

Commercial properties of the pelts of coarse-wooled Carpathian Mountain and crossbred Tsinghai x Carpathian Mountain sheep. Mauch.-issl.trudy NIIP no.10:24-27 *60.

(MIRA 14:4)

(Sheep) (Hides and skins)

VINOGRADOV, Aleksandr Petrovich; KEDRIN, Yevgeniy Alekseyevich;
TSEREVITINOV, Boris Fedorovich; SERGEYEV, M.Ye., zasl. deyatel'
namki, prof., doktor tekhn. namk, retsenzent; BULGAKOV, M.V.,
prof., doktor tekhn. namk, retsenzent; PLATUMOV, K.M., kand.
tekhn. namk, retsenzent; SHVETSOVA, T.P., insh., retsenzent;
MURVANIDZE, D.S., insh., retsenzent; YEGORKIN, N.I., prof.,
doktor tekhn. namk, retsenzent; MASHKOV, A.M., kand. sel'khos.
namk, retsenzent: ARKHANGEL'SKIY, M.A., prof., red.; HORISOVA,
G.A., red.; GROMOV, A.S., tekhn. red.

[Leather goods, shoes, furs and pelts] Kozhevenno-obuvnye, pushno-mekhovye i ovchinno-shubuye tovary. Pod red. N.A.Ar-khangel'skogo. Moskva, Gos. izd-vo torg. lit-ry, 1962. 536 p.

(MIRA 15:3)

(Boots and shoes) (Fur) (Effect and skins)

MASSEMOV, A. H., kand. sel'skekhosysystvennykh nauk

The problem of the production of sheep pelts for garments has
te be selved. Neah. ebuv. prem. 4 no. 10:10-12 0 '62.

(MIRA 15:10)

(Fur) (Sheep breeding)

PANYUKIN, I.I., kand.tekhn.mauk [deceased]; GAYEVOY, Ye.V., kand.sel'skokhos.nauk

Processing of sheep pelts preserved with formaldehyde hypomulfite solutions. Nosh,-ebuv.prom. 4 no.12:22-24 D '62. (MIRA 16:1)

(Fur)

MASHKOV, A., kand.sel'skokhosyaystvennykh nauk

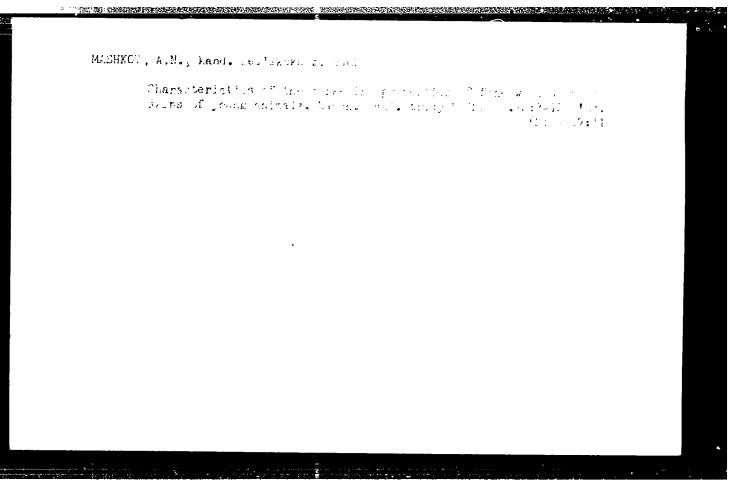
The observation of technology is a law for the enterprises. Mias.ind. SSSR 33 no.3:9-10 62. (MIRA 15:7)

1. Hauchno-issledovatel*skiy institut mekhovoy promyshlermosti.
(Hides and skins) (Meat industry-By-products)

MASHKOV, A.N., kand.sel'skokhosyaystvennykh nauk

Studying the commercial characteristics of the sheep skine obtained from improved Alai sheep breeds. Nanch.isel.trudy NIIP no.11: 3-10 '62. (MIRA 16:5)

(Alai Range-Sheep) (Hides and skine)



MASHKOV, n.d. kand. sel'skokhoz. nauk

l'equirements of the industry regarding the quality of raw
sheep pelts. Kozh.-obuv. prom. 7 no.5:14-17 My '65.

(MiRA 18:8)

MISHARIN, Dmitriy Mikhaylovich; MASHKOY, Aleksandr, Mikitich: DRIZE, I.D., redaktor; AVRUTSKAYA, R.F., redaktor isdatel stva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor

OPINI DE TECHNO DE MANGEMANDE LE MARCE LE MANGE LE MANGE DE LA MARCE DE LA MARCE DE LA MARCE LE MARCE

[Organisation and planning of production in mining enterprises]
Organisateiis i planirovanie proisvodstva as gornorudnykh predpiriatiiskh. Meskva, Gos. nauchno-tekhm. isd-vo lit-ry po chernoi i tevetnoi metallurgii, 1956, 374 p.

(Mining engineering)

PASHKOV A. N.

SHTEYEDERO, Ye.S.; MASHKOV, A. N.

Revising the wage system and transferring the nonferrous metal industry to a shortened work day. Gor, shur. no.8:39-40 Ag '57.

(Nonferrous metal industry)

(Hours of labor) (Mages)

(Hours of labor)

MASHKOV, A. N.

137-58-5-9263

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 69 (USSR)

AUTHORS: Shteynberg, Ye.S., Mashkov, A.N.

TITLE: Conversion of Nonferrous Metallurgy Establishments to a

Shorter Working Day and a New Wage System (O perevode predpriyatiy tsvetnoy metallurgii na sokrashchennyy rabochiy

den' i na novyye uslovaya oplaty truda)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 11-12, pp 2-8

ABSTRACT: Bibliographic entry

1. Industry--USSR 2. Employee relations--USSR

Card 1/1

MASHKOV, A.N.

137-58-5-9262

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 69 (USSR)

AUTHORS: Shteynberg, Ye.S., Mashkov, A.N., Drize, I.D.

TITLE: Introduction of a New Wage System for Workers in Nonferrous

Metallurgy Establishments (Opyt vvedeniya novykh usloviy oplaty

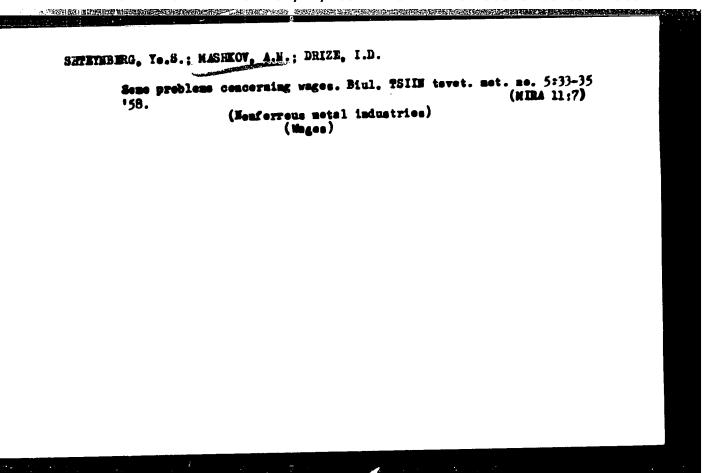
truda rabochikh na predpriyatiyakh tsvetnoy metallurgii)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 15, pp 31-34

ABSTRACT: Bibliographic entry

1. Metallurgy--USSR 2. Labor--Standards

Card 1/1



DRIEM, Iosif Davydovich; MASHKOV, Aleksandr Nikitich; SHTEYNBERG, Ye.S., red.; AVRUTSKAYA, R.F., red.isd-va; ISLEHT'YEVA, P.G., tekhn.red.

[Wage organisation in nonferrous metal mines] Organisatsiia sarabotnoi platy na rudnikakh tsvetnoi metallurgii. Moskva, Gos. nauchno-tekhn.isd-ve lit-ry po chernoi i tsvetnoi metallurgii.

1959. 295 p. (MIRA 12:9)

(Wages) (Mine management)

THE REPORTED AND ADDRESS OF THE PROPERTY OF TH

DRIZE, Iosif Davidovich; MASHKOV, Aleksandr Wikitich; GINZBURG, Ye.G., red.; AVRUTSKAYA, R.F., red. izd-va; ISLENT YEVA, P.G., tekhn. red.

[Organisation of wages in plants of nonferrous metallurgy] Organisatsiis sarabotnoi platy na savodakh tsvetnoi metallurgii. Hoskva, Gos. naushno-tekhn.isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 295 p. (MIRA 14:9) (Monferrous metal industries) (Wage payment systems)

MISMARIN, Britriy Mikhaylovich; MASSHOV, Aleksendr Hikitich; PINBOIN, I.I., etv. red.; OSFAL'D, E.Is., red. ind-va; MASSHOVA, V.V., tekim. red.

[Biomenics, organisation, and planning of production at mining enterprises] Exceeding, organisatelia i planirovanie preisvodstva na germanukyth profpriiatiishh. Meskva, Oss. naushma-tekim. ind-ve lit-sy pe germanu delu, 1961. 406 p. (MIRA 14:11)

(Mine management)

ANTONOV, B.V.; MASHKOV, A.N., red.; KHUTCRSKAYA, Ye.S., red.izd-va; MYAKOVA, G.H., tekhn. red.

[Establishment of work norms and wages] Normirovanie truda i sarabotnaia plata. Moskva, Metallurgizdat, 1963. 36 p. (MIRA 17:1)

BENUNI, Ameyak Khristoforovich; MASHKOV, A.N., red.; KOVALEVSKIY, M.A., red.izd-va; GINZBURG, R.Ya., tekhn. red.

[Determining the economic efficiency of technical decisions in nonferrous metallurgy] Opredelenie ekonomicheskoi effektivnosti tekhnicheskikh reshenii v tsvetnoi metallurgii. Moskva, Metallurgizdat, 1963. 54 p.

(MIRA 17:1)

BENUNI, Amayak Khristoforovich; MASHKOV, A.N., red.; KOVALEVSKIY, M.A., red.izd-va; KOROVINA, N.A., tekhn. red.

[Reducing production costs is the source for increasing the national wealth] Snizhenie sebestoimosti produktsii - istochnik rosta obshchestvennogo bogatstva. Moskva, Metallurgizdat, 1963. 57 p. (MIRA 17:1)

(Nonferrous metal industries—Costs)

MASHKOV, Aleksandr Nikitich

[Organization of the establishment of technical norms in nonferrous metallurgy] Kak organizovano tekhnicheskoe normirovanie v tsvetnoi metallurgii. Moskva, Metallurgiia, 1964. 43 p. (MIRA 17:11)

TESHER, P.A.; MAKAROV, K.I.; TEPINOV, L.I.; ZHIGAREV, S.V.;
IGROLEVA, K.A.; MASHEOT, A.E.

Ghtsining nonoxidising het gas reducers from natural gas.

Gas. prom. 8 no.9:38-43 8 163, (MIRA 17:8)

DUMA, A.K., insh.; MASHKOV, A.S., insh.; KOVALEV, V.P., insh.

Sprengthened suspecified scaffolding with mechanised hoisting.

Press. strol. 40 no. 12:37-39 162. (MIRA 15:12)

(Scaffolding)

TANGE OF THE PROPERTY OF THE P

"Test of the Allergenicity and Reactivity of Gayskiy's Living Tularaemia Vaccine."

Zhurn. Mikrobiol., Epidemiol. i Immuncbiol. 1947 (7) 5.-54

MASHKOV, A. V. and Gotovskaya, Ts. N.

"On the Problem of a Method of Isolating the Casuative Agent of Tularemia from Water"

Zhurnal Mikrobiologii. Epidemiologii i Immunobiologii, No 9, 1950, pp70-72
W-24635, 3 Dec 1952

MASHKOV, A-V.

CHERKASSKIY, YE. S.; MASHKOV, A. V.; SORINA, S. YE.

Tularemia

Susceptibility of coypus to tularemia. Zool. zhur. 31 No. 4 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

MASHKOV, A. V.

Jun 53

USSR/Medicine - Tularemia

"The Effect of Massive Doses of Gayskiy's Strain on the Course of Acute Tularemia in

Guinea Pigs, " A. V. Mashkov, N. K. Mal'tsev, Moscow Oblast' Inst im I. I. Mechnikov

Zhur Mikro, Epid, i Immun, No 6, pp 40-44

Subcutaneous inoculation with large doses of Gayskiy's strain (a vaccine strain of B. tularense) saves from death the majority of guinea pigs infected with acute tularemia. Massive doses of Gayskiy's strain produce immunity in guinea pigs within 24 hrs, but large doses (100,000 bacterial bodies) of a highly virulent strain overcome this immunity. Within 4 days, the immunized animals acquire resistance to such doses of the virulent strain. Simultaneous infection of guinea pigs with a large dose of Gayskiy's strain and a sufficiently small dose of a virulent strain does not result in death.

M- 153, 7 Fd 55

267T17

MASHKOV, Aleksandr Vasil'yevich.

Moscow Inst of Epidemology, Microbiology, and Infectious Diseases imeni Mechnikov. Academic degree of Doctor of Medical Sciences, based on his defense, 3 January 1955, in the Council of the 1st Moscow Order of Menin Med Inst, of his dissertation entitled: "Study of Infection and Immunity in Experimental Tularemia."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 13, 4 June 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Uncl. JPRS/NY-537

MASHKOV, A.V.

USSR/Medicine - Tularemia, immunology

FD-2605

Card 1/1

Pub. 148 - 16/25

Author

: Mashkov, A. V. and Mal'tseva, N. K.

The state of the s

Title

: The change in the agglutinable characteristics of tularemia cul-

tures due to the effect of heating at various temperatures

Periodical

: Zhur. mikro. epid. i immun. 4, 72-75, Apr 1955

小型。但是**对他的原则是是是这个的证明的**,但是是是是是是是是一个的。

Abstract

: Changes in the agglutinable characteristics of eleven virulent, one vaccine (Gayskiy), and two avirulent strains of tularenia bacilli after heating to various temperatures were examined. When heated to 56°C the viscosity of the cultures was increased and agglutinability decreased to almost zero. Agglutinability returned to normal levels after boiling. The results of the experiments are presented in three charts. No references are cited.

Institution

: Moscow Institute of Epidemiology, Microbiology and Hygiene imeni

Mechnikov (Director - M. I. Sokolov)

Submitted

: April 14, 1954

MASHKOY A. V.

A. V. Mashkov, Moscow Institute of Vaccines and Sera imeni
I. I. Mechnikov, Zhurnal Mikrobiologii, Epidemiologii 1
Imannobiologii, No 2, Feb 57, pp 87-92

This article describes an outbreak of anthrax in village Yu., rayon 1971. In 1953 and 1954, in which ll persons died. The outbreak occurred 1971 the no apparent attendant epizootic among the animals in the area. It first seven victims, three children and four adults, died within 1.6 days after they first showed signs of illness. Anthrax was not diagnosed or suspected until 3 months later, when an autopsy by a pathologist from a medical institute revealed Bianthracis with the aid of the Ascoli test.

After anthrax had been established, a 56-year-old woman came down with disease. The day she became ill she was sent to the rayon center where she was transported to the infectious-diseases clinic of the last center by airplane. There she was treated with antianthrax serum antibiotics, but died 3 days later. The pathological examinations antibiotics, but died 3 days later. The pathological examinations these victims showed involvement of the viscera, lungs, lymphatic these victims showed involvement of the viscera, lungs, lymphatic maters, and pia mater typical of anthrax. None of them showed any extensions. Two other adults and a child died within a year of

SUM. 1374

MASHKOY, A. V.

A. Kenshilova, director of an institute of vaccines and sera; and I. Chiranova, chief physician of the oblast sanitary-epidemiological lation. The investigation rescaled that the village has ocen recorded an anthrax focus since 193h and that several epizootics had occurred an anthrax focus since 193h and that several epizootics had occurred an anthrax focus since 193h and that several epizootics had occurred are between 193h and 1938; consequently, all herd animals had been recinated with a "live anthrax vaccine" from 1936 to 1948. Since no class of anthrax had appeared during that 10-year period, vaccinations are stopped. Although a cow had died of anthrax in 1951, vaccination not resumed until the fall of 1953 after several people had died.

Five of the fatal cases occurred in one family and the remainder

54M. 1374

MASHKOV, A. V.

Prior to their deaths they had been kept as is customary in this area, in the farmer's house, where the children were in close contact with them. After the sheep died the hide of one was dried and kept in the house. Three young goats that died after the human cases were diagnosed in the fall, upon examination, proved to have died from anthrax.

"你生活来到着我们们的强烈。我们还是一个大学的人,我们们还是一个大学的人,我们们还是一个大学的人,不是一个大学的人,不是一个大学的人,也是一个大学的人,也是一个

It is pointed out that none of these animals would have been vaccinated even if the vaccination program had been in progress since the vaccinations were carried cut only in April and May and any animals born after that time would not have been vaccinated until the following year. The deaths of the lembs and kids had not been reported to the veterinary authorities since the animals were not yet 5 months old (farmers are compensated for the death of such animals after they are 5 months old).

It was concluded that the young animals had contracted anthrax

SUM-1374

MASHKOV, A.V.

Some poculiarities of anthrax in a rural district. Zhur.
mikrobiol. epid. i immun 28 no.2:67-92 F '57 (MERA 10:4)

1. Is Moskovskogo instituta vaktsin i syvorotok imeni
I.I. Mechnikova.

(ANTHRAI, prev. and control

in Russia, in rural areas)

(RURAL COMDITIONS

prev. of anthrax in Russia)

MITSHKOV, M. V. TARAHEHKO, A.F.

Studies on pathogenesis of tuleremia in experimental animals.

Report No.3: Dynamics of multiplication of the causative agent and development of morphological changes in organs of white mice following subcutameous administration of Pasteurella tuleremis. Zhur. mikrobiol.epid. 1 immun. 28 no.8:122-125 Ag '57. (MIRA 11:2)

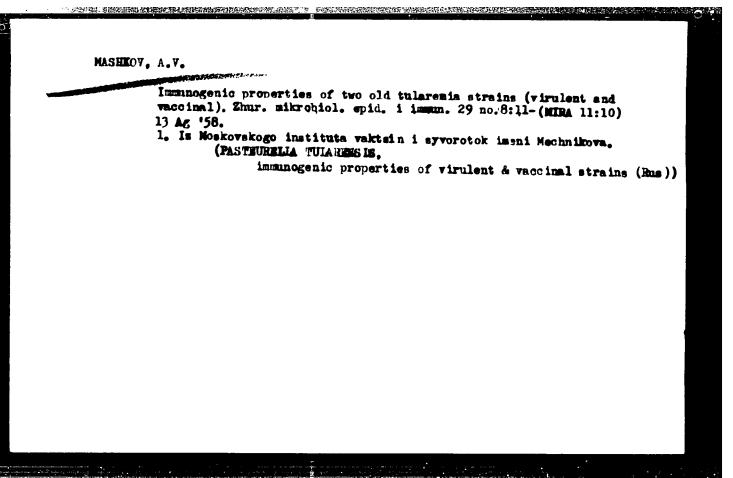
1. Is Moskovskogo institute vaktain suborotok imeni Mechnikova.
(TULAREMIA, experimental,
sultiplication of pathogens & morphol. changes after
subcutaneous admin. of cultures (Rus))

MASHKOV, Aleksandr Vasil'yevich [Anthrax; materials for lecture purposes] Sibirskaia issva; materialy v pomoshch' lektoru. Moskva, In-t sanitarnogo prosveshcheniia, 1958. 33 p. (ANTHRAX) (MIRA 13:8)

MASHROV, A.V., NIKHAYLOVA, Z.M.

Simple method for obtaining an agglutinogen from whooping cough cultures during the fire phase. Lab.delo 4 no.3:37-40 My-Je'58 (MIRA 11:5)

1. Is otdela ostrykh detskikh infektsiy (sav. - prof. A.I. Dobrokhotova [deceased]) Instituta pediatrii AMN SSSR, Moskva. (WHOOPING COUCH) (ANTIGENS AND ANTIBODINS)



AUTHORS:

Obolentsev, R. D., Mashkina, A. V.

20-119-6-38/56

TITLE:

The Hydrogenolysis Kinetics of Dibenzothiophene and Octahydrodibenzothiophene Over an Aluminum-Cobalt-

Molybdenum Catalyst

(Kinetika gidrogenoliza dibenzotiofena i oktagidrodibenzotiofena nad alyumokobal tomolibdenovym katalizatorom)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 119, Nr 6,

pp. 1187-1190 (USJR)

ABSTRACT:

The most important modern catalytic working processes of sulfurous mineral oils are based on the hydrogenolysis reactions of organo-sulfuric compounds. They are insufficiently investigated, especially the kinetics mentioned in the title, in spite of the widely spread application of the mentioned catalyst in the mineral oil processing industry. This gap is partly to be closed by the present paper. As the so-called "rest sulfur" mineral-oil products is highly represented by compounds of the thiophene series the authors selected the substances initially mentioned in the title (the second one is called 1, 2, 3, 4, 5, 6,

Card 14

The Hydrogenolysis Kinetics of Dibenzothiophene and Octahydrodibenzothiophene Over an Aluminum-Cobalt---Molybdemum Catalyst

20-119-6-38/56

7, 8-octahydro-benzothiophene). Their synthesis is already described. (Refs. 1, 2). As 0,5%-(according to sulfur)solutions in technical cetane in a flowing-through plant (Ref. 3) with some modifications they were subjected to hydrogenolysis. For the purpose of describing the experimental results (Table 1) the authors tried to employ the kinetic equation by Frost for monomolecular reactions (Ref. 5). Other equations of this type (Refs. 6-9) are mentioned. According to the methodology by S. A. Kazeyev (Ref. 8) the authors found equations which represent the dependence of depth and velocity of both substances mentioned in the title on the duration of contact (Table 2). The correctness of the equations is confirmed by the satisfactory agreement of the experimentally determined and computed depths of the hydrogenolysis (Table 1). Because the clearing up of the dependence of the depth of hydro-desulfonation on the partial hydrogen pressure is important for industry, the authors deduced equations

Card 2/4

The Hydrogenolysis Kinetics of Dibenzothiophene and Octahydrodibenzothiophene Over an Aluminum-Cobalt---Molybdenum Catalyst

20-119-6-38/56

of the total dependence of depth and of the velocity of hydrogenolysis of both mentioned substances on the duration of contact and on the mentioned pressure. Because the parameter "b" is practically independent of this pressure, the authors could obtain, after corresponding substitutions the desired equations (8) - (11), which satisfy the experimental results (Table 1). The results of analysis referring to the absorption spectra within the ultraviolet range showed that the total sulfur contained within the liquid catalyst is represented by the not reacted dibensothiophene and octohydro-dibensothiophene. Only biphenyl forms the decomposition product of dibensothiophene, its quantity within the limits of the experimental error agreeing with the quantity of the reacted dibensothiophene. The hydrogenolysis of the latter proceeds in one stage where biphenyl and hydrogen sulfide form. There are 1 figure, 2 tables, and 10 references, 8 of which are Soviet.

Card 3/4

The Hydrogenolysis Kinetics of Dibenzothiophene and Octahydrodibenzothiophene Over an Aluminum-Cobalt--Molybdenum Catalyst

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ASSOCIATION: Bashkirskiy filial Akademii nauk SSSR

(Bashkir Branch AS USSR)

PRESENTED: December 11, 1957, by A. V. Topchiyev, Member, Academy of

Sciences, USSR

SUBMITTED: December 11, 1957

Card 4/4

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TEALOG "AGENERAL DE DELOGREDO DE LA CERCATA DE LA COMPANSA DE LA COMPANSA DE LA COMPANSA DE LA COMPANSA DE LA C

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Comparative antigenic activity of the first phase of a whooping cough culture and of an agglutinogen obtained from this culture. Zhur. mikrobiol. epid. i immun. 31 no.7:103-108 Jl '60.

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1. Iz Instituta pediatrii AMN SSSR.
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Determination of complement components in dogs by means of reagents of human serum. Zhur.mikrobiol., epid. i immun. 42 no.9:138 S '65. (MIRA 18:12)

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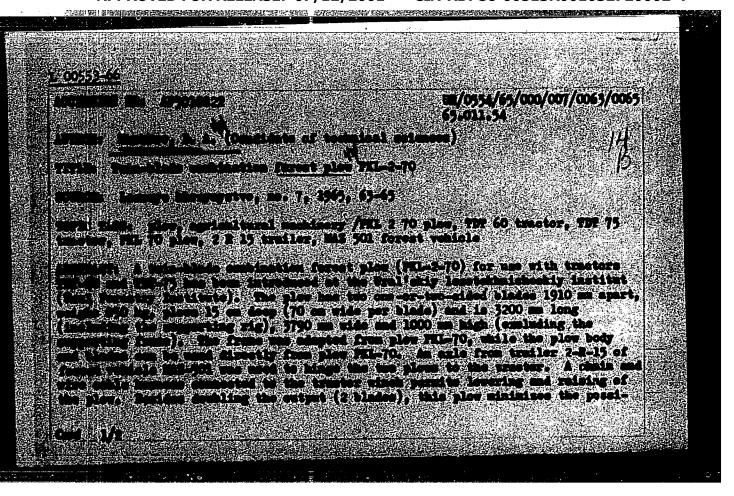
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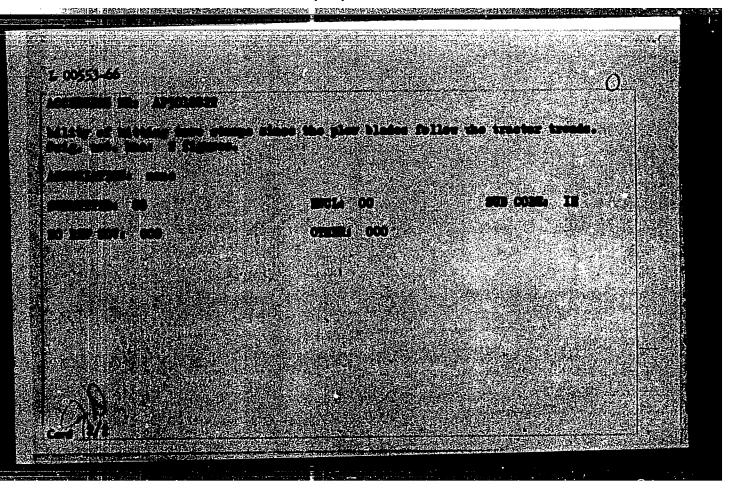
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OILIESKIY, I.A., kand.tekhn.neuk; CHERKASSKIY, A.Kh., kand.tekhn.neuk, retsensent; NOSKVIE, M.V., insh., retsensent; KOZLOV. V.P., insh., retsensent; YAKOVLEV, L.M., insh., red.; BIKITIE, A.G., red.isd-va; E.'KIED, V.D., tekhn.red.

[Heat, hydraulic, and air engines of rural electric power stations]
Teplevye, gidravlicheskie i vetrianye dvigateli sel'skikh elektrestantsii. Meskva, Ges.nauchne-tekhn.isd-ve meshinestroit.lit-ry,

(MIRA 12:3)

(Air turbines) (Hydraulis turbines) (Electric motors)

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AUTHORS:

Myasnikov, V.A. and Mashkov, G.V., Lieutenant-

D264/D305

Colonels, Medical Corps

TITLE: A case of marked barotrauma of the lungs with

arterial gas embolism

PERIODICAL: Voyenno-meditsinskiy zhurmel, no. 5, 1961, 77-79

TEXT: The article describes a case of pulmonary barotrauma with arterial gas embolism accompanied by almost all the typical symptoms and by another, unusual symptom - convulsions. Barotrauma developed through failure in a diver's oxygen supply at a depth of 10 meters. The diver was sent to a recompression chamber. Fifteen minutes after being raised to the surface he developed clonic convulsions in fits of 10-15 seconds duration and at intervals of 2-3 minutes, and then 5-7 minutes. The convulsions were of the opisthotonos type, bending the head

Card 1/3

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A case of marked barotrauma ...

and lower extremities. They lasted about 25 minutes and were reminiscent of convulsions from exygen poisoning. The barotrauma is attributed to two factors: a) to deep inhalation from an empty respiratory sac, leading to exhaustion of the lungs and overstretching of the lung tissue beyond its elasticity which, overstretching of the lung tissue beyond its elasticity which, in turn, led to barotrauma and subsequent gas embolism; b) as a result of a blow from the respiratory sac (although this is a result of a blow from the respiratory sac (although this is thought less likely), leading to a marked rise in lung pressure and the development of barotrauma. The clonic convulsions were due to pathological disturbances in the central nervous system, and primarily in the cerebral cortex. Some time after the barow trauma the gas emboles move along the blood stream and may penetrate the cerebral vessels, causing convulsions through disturbance of the blood supply to individual sections, with resultant pathological processes in the nerve cells. The mechanism of these pathological processes is still not clear. The

Card 2/3